

THE UNMANNED 6M WASP



Design objective

The **UNMANNED 6M WASP** (*W*aterborne *A*ssault *S*urveillance *P*atrol boat) is a rapidly deployed, low cost, patrol boat that can be operated remotely and is equipped with a wide range of surveillance and preventative technology.

Aimed primarily at protecting extended areas of the ocean or coastline against unauthorized use or illegal activity, multiples of **WASPs** can be stationed ± 50 NM apart within radar contact of each other along the coast to be protected, thus creating an impenetrable **Radar "Fence"**, extending over many hundreds of nautical miles. Live time information is relayed from the **WASPs** to the supporting **Mother Ship**, where operators can individually control all functions of the **WASPs** as required. If necessary, as many **WASPs** as a situation requires, can be rapidly deployed to the area at very high speed.

These fast and very nimble boats are a difficult target to hit; however, should there be concern that a **WASP** may be captured, a stabilised remotely operated LMG can assist in this process OR a self destruct function could be utilised. (taking into consideration the proximity of other vessels)

Concept of Operation

The **WASPs** are deployed from the **Mother Ship** by means of a single point lift and a crane. Once launched, each one is sent to its pre-arranged position where it will remain as instructed within a determined boundary.

When in travel mode the aluminium space frame mast is lowered via electro-hydraulic rams until it rests in a crutch mounted on the transom. In the lowered position stability and wind resistance are significantly improved. More importantly, the operator of the **WASP** has an excellent view point from which to control the vessel and its armament via a **360° camera** (with thermal and night vision), situated well behind the hull of the **WASP**.



Specification

LOA	5.8 m	Hull bottom thickness	4.5 mm 5083 grade aluminium
Beam	2.15 m	Hull side thickness	3 mm 5083 grade aluminium
Hull Draft	0.35 m	Deck thickness	3 mm 5083 grade aluminium
Gross Displacement	1 800 kg	Floataction in tubes	1 000 kg
Hull weight excl. Propulsion	450 kg	Drainage	Self draining wet deck
Fuel Capacity	1 000 litres	Propulsion	Water jets to client's specs
Max speed	45 knots plus	Equipment	To client's requirements
Dead rise amidships	18°		
Dead rise transom	18°		
Canopy	Marine Grade Aluminium or composite, ballistic protection optional		

Design and Construction

- The hull of the **WASP** is built of all marine grade, heavy-duty aluminium.
- Aluminium is by far the most superior material to ensure a very long working life. It is lighter and therefore requires smaller propulsion systems and uses less fuel. It requires very little maintenance and is also quick and easy to repair in the unlikely event of any damage. The aluminium hull can withstand an enormous amount of abuse and rough treatment without any serious effects.
- Due to the unique side flotation tubes, these boats are very stable and are almost impossible to capsize or sink. Even when fully swamped, the boat will remain operational.
- The gun mounts will be constructed to the client's specification.